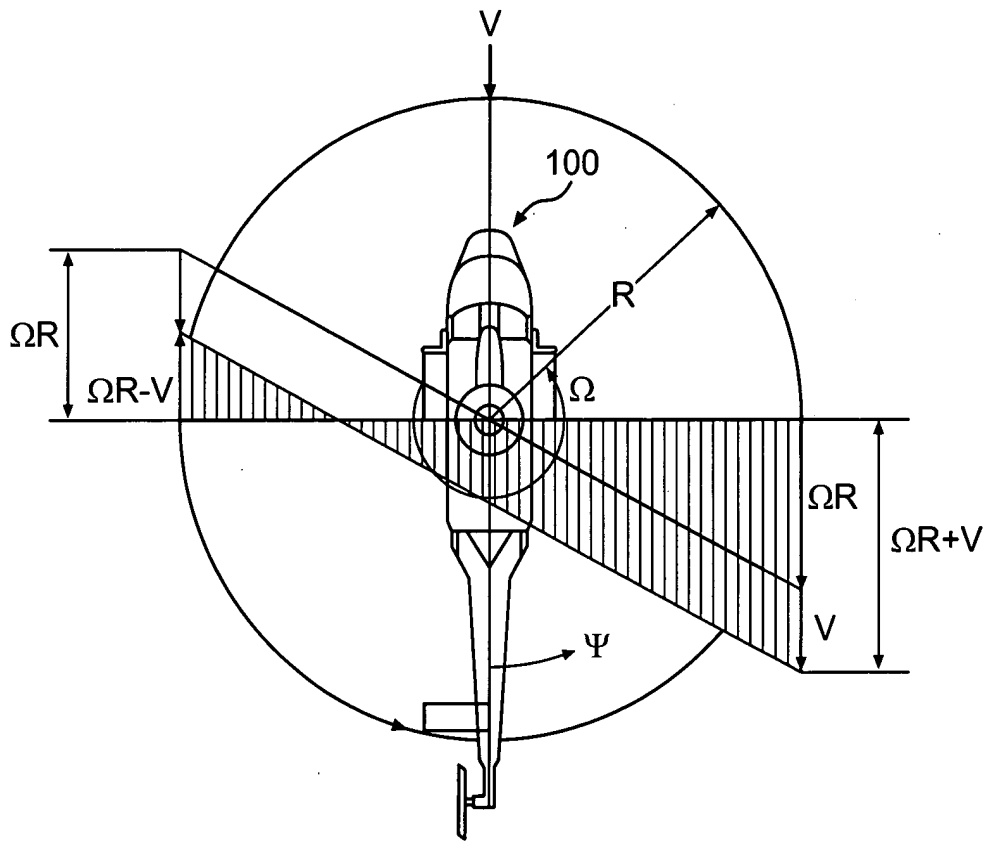


FIG. 1

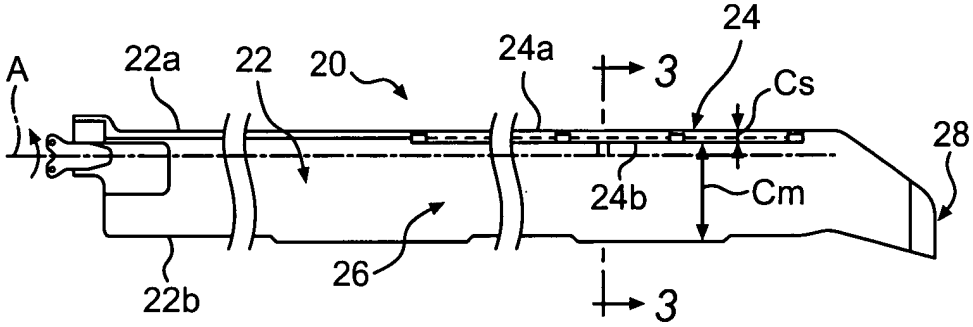


FIG. 2

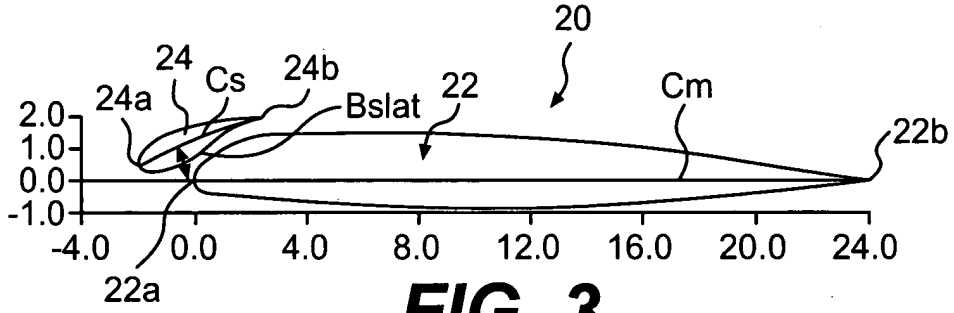


FIG. 3

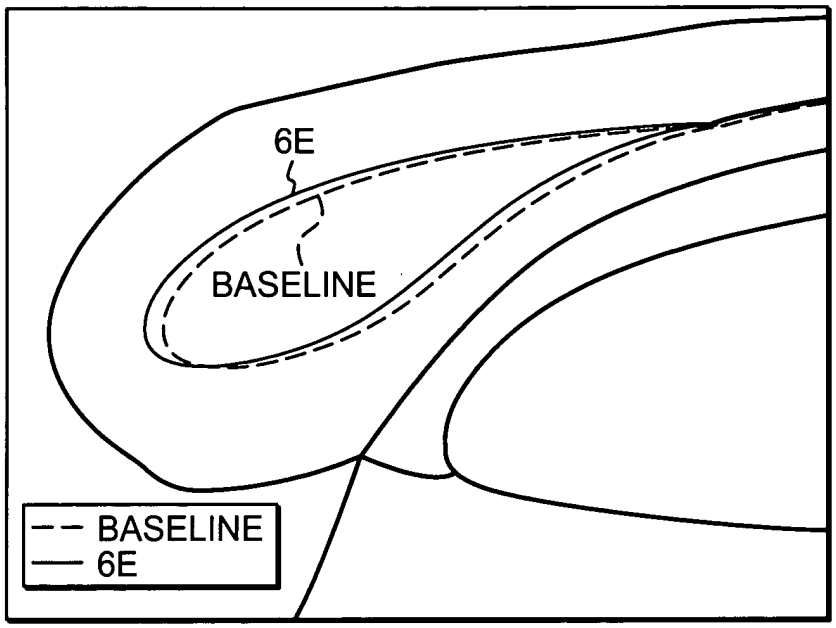

6E
BASELINE
BASELINE
6E

FIG. 4

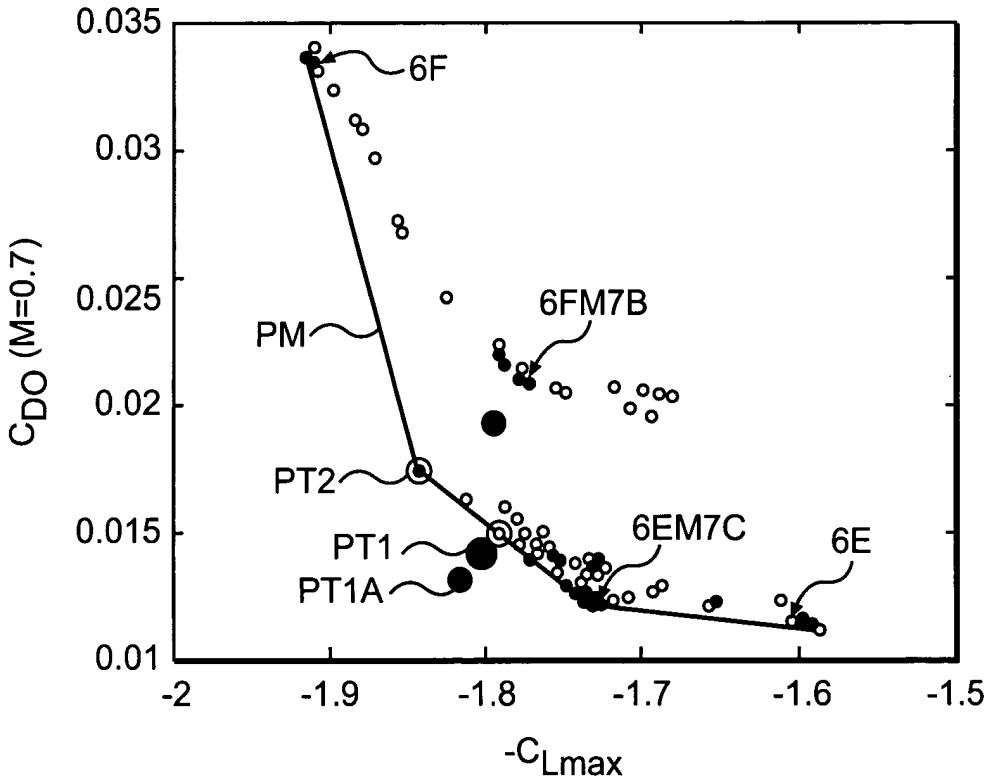

0.035
0.03
0.025
0.02
0.015
0.01
C_{DO} (M=0.7)
6F
6FM7B
PM
PT2
PT1
PT1A
6EM7C
6E
-2
-1.9
-1.8
-1.7
-1.6
-1.5
$-C_{Lmax}$

FIG. 5

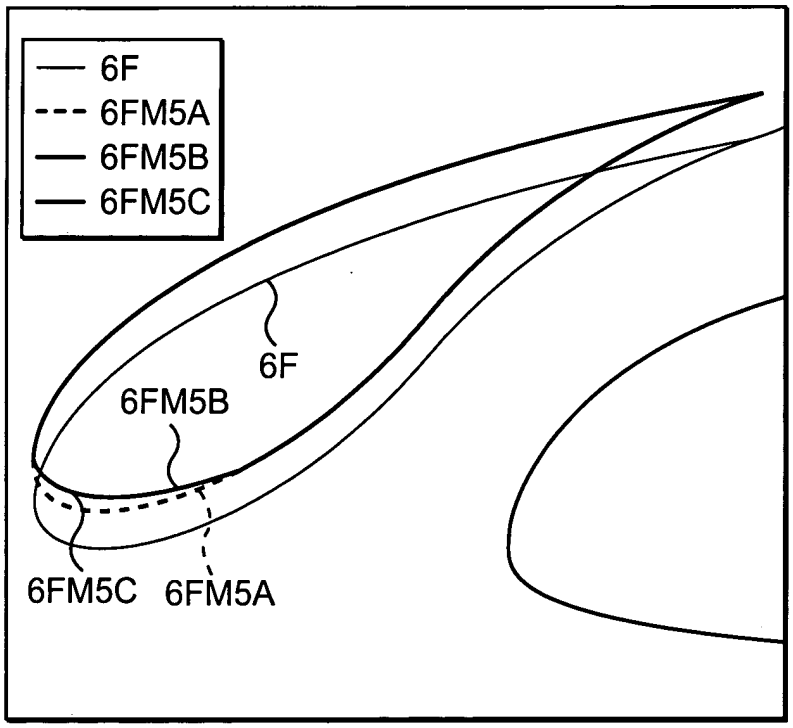

6F
6FM5A
6FM5B
6FM5C
6F
6FM5B
6FM5C
6FM5A

FIG. 6

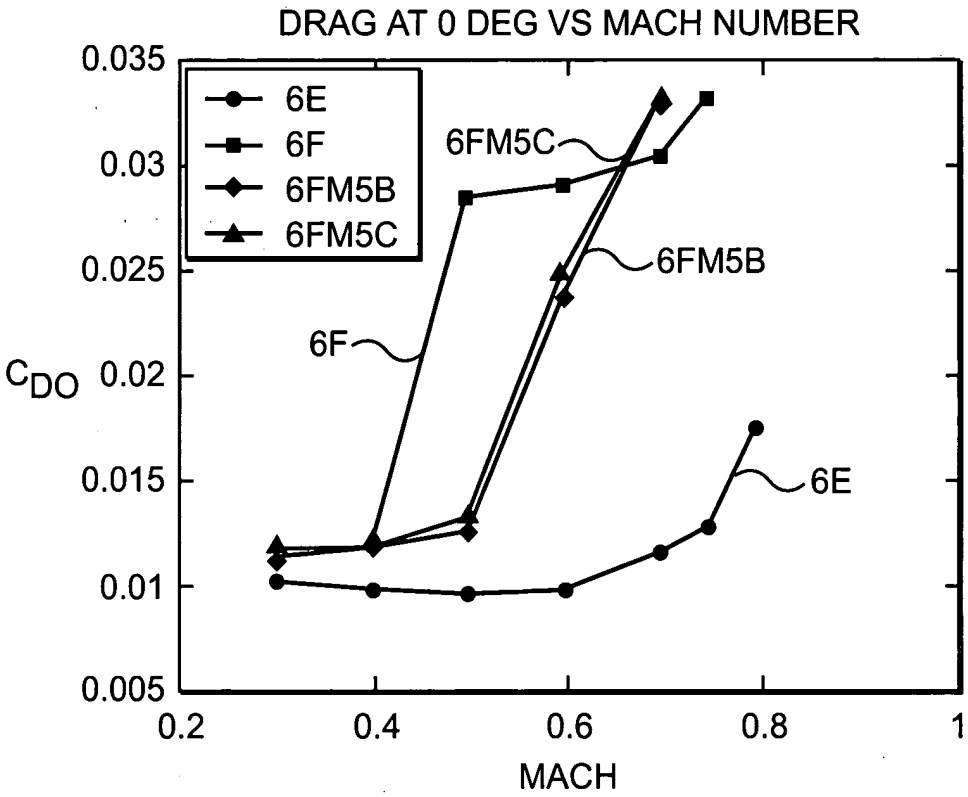

DRAG AT 0 DEG VS MACH NUMBER
0.035
0.03
0.025
0.02
0.015
0.01
0.005
C_{DO}
0.2
0.4
0.6
0.8
1
MACH
6E
6F
6FM5B
6FM5C
6FM5C
6FM5B
6F
6E

FIG. 7

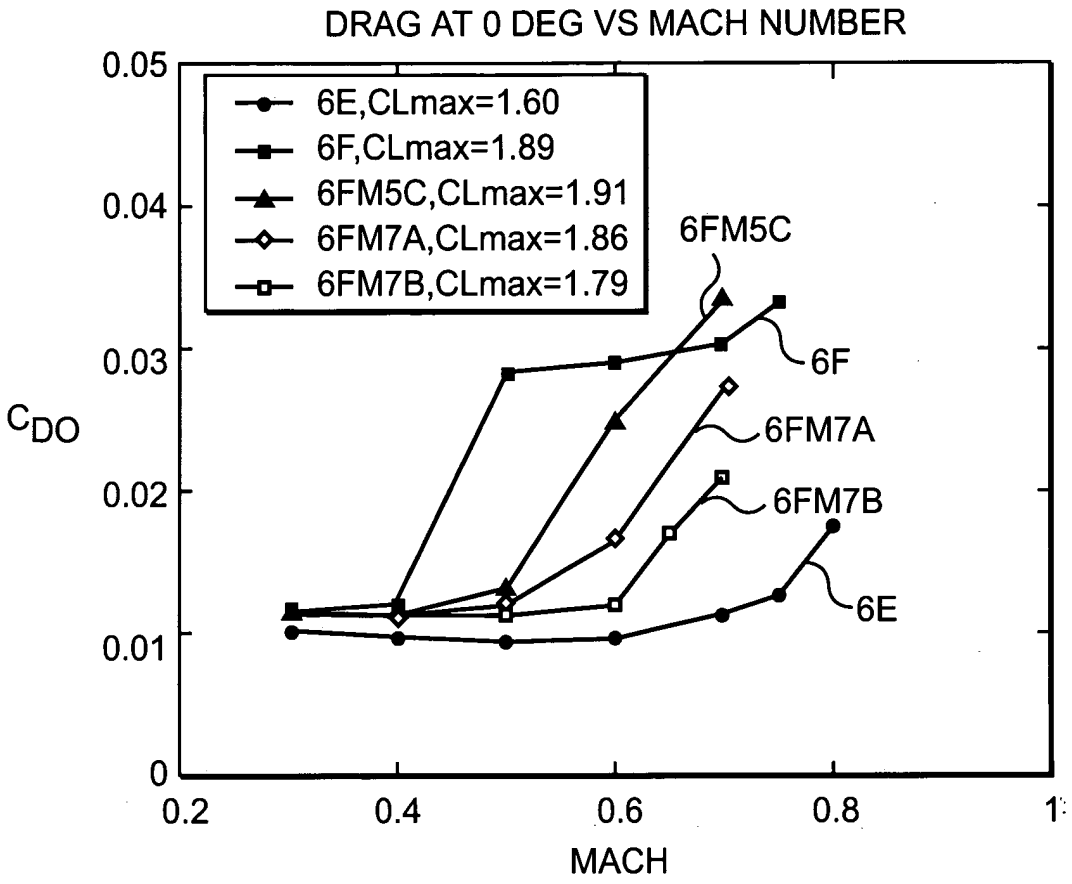

DRAG AT 0 DEG VS MACH NUMBER
0.05
0.04
0.03
0.02
0.01
0
C_{DO}
0.2
0.4
0.6
0.8
1
MACH
6E,CLmax=1.60
6F,CLmax=1.89
6FM5C,CLmax=1.91
6FM7A,CLmax=1.86
6FM7B,CLmax=1.79
6FM5C
6F
6FM7A
6FM7B
6E

FIG. 8

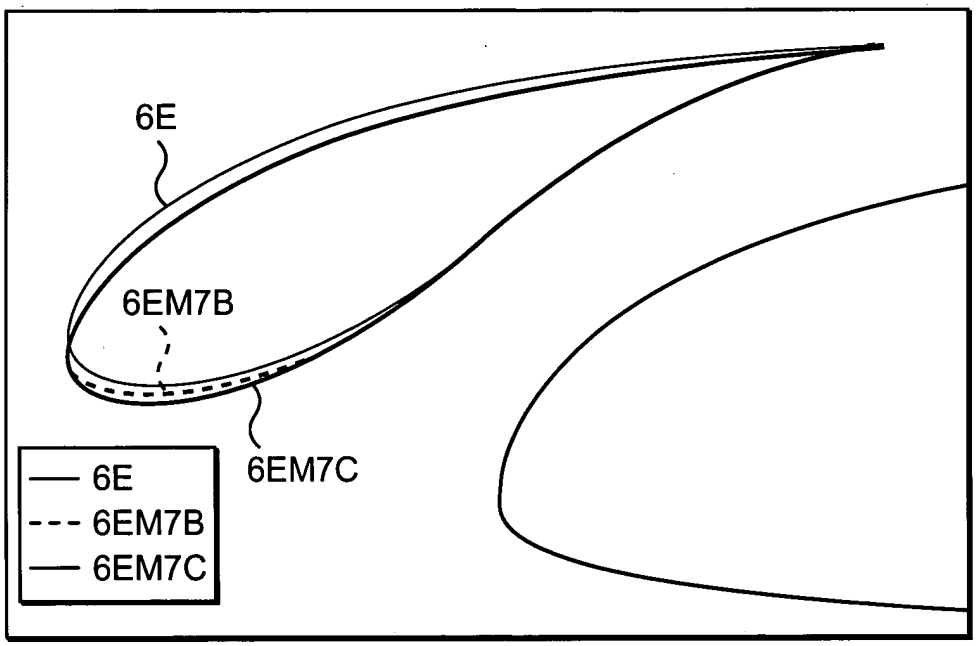

6E
6EM7B
6EM7C
6E
6EM7B
6EM7C

FIG. 9

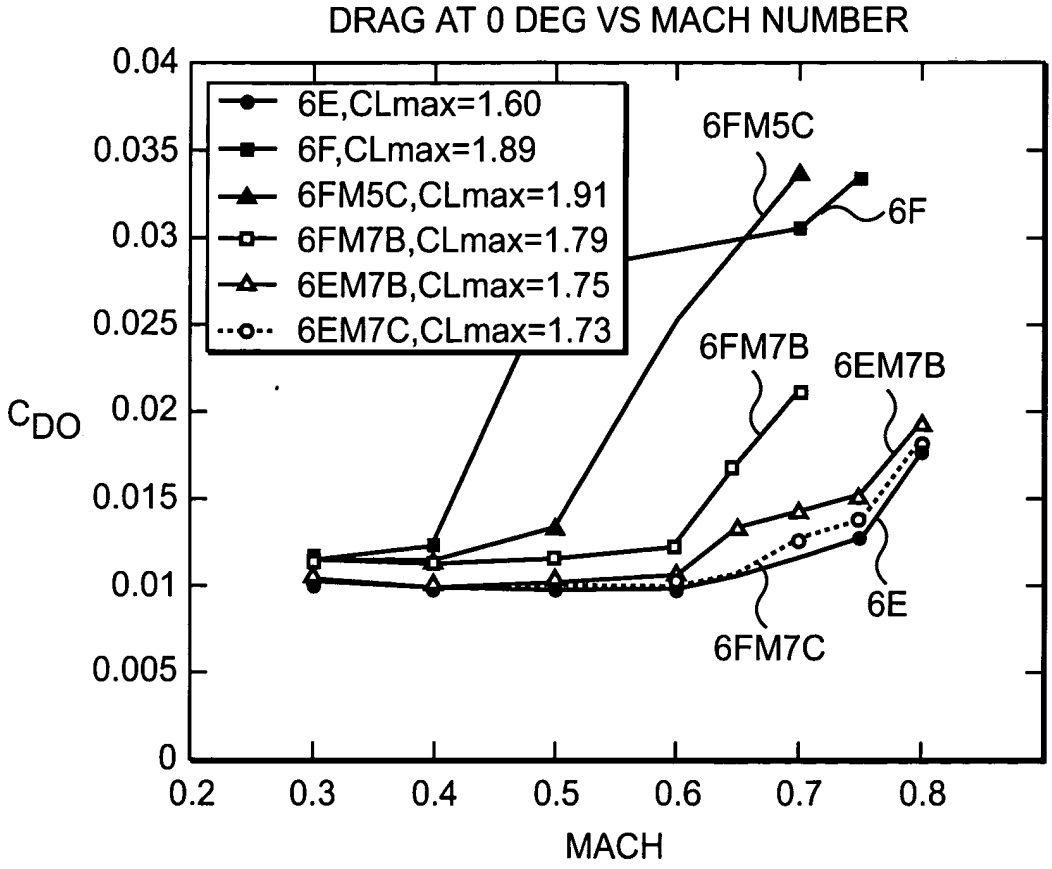

DRAG AT 0 DEG VS MACH NUMBER
6E,CLmax=1.60
6F,CLmax=1.89
6FM5C,CLmax=1.91
6FM7B,CLmax=1.79
6EM7B,CLmax=1.75
6EM7C,CLmax=1.73
6FM5C
6F
6FM7B
6EM7B
6E
6FM7C
C_{DO}
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0.2
0.3
0.4
0.5
0.6
0.7
0.8
MACH

FIG. 10

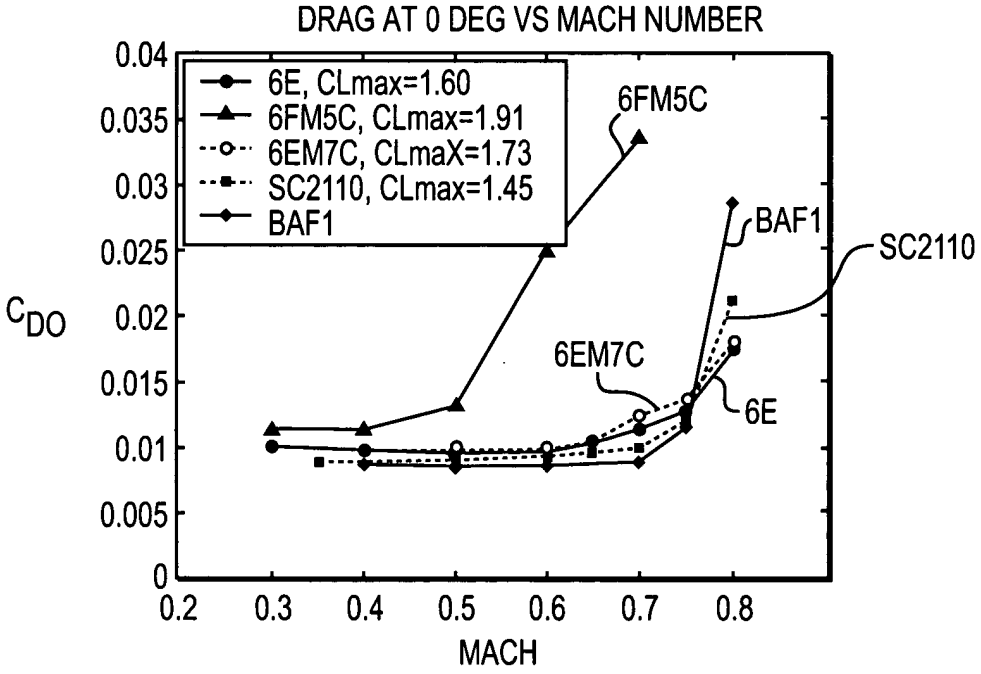

DRAG AT 0 DEG VS MACH NUMBER
6E, CLmax=1.60
6FM5C, CLmax=1.91
6EM7C, CLmaX=1.73
SC2110, CLmax=1.45
BAF1
6FM5C
BAF1
SC2110
6EM7C
6E
C_{DO}
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
0.2
0.3
0.4
0.5
0.6
0.7
0.8
MACH

FIG. 11

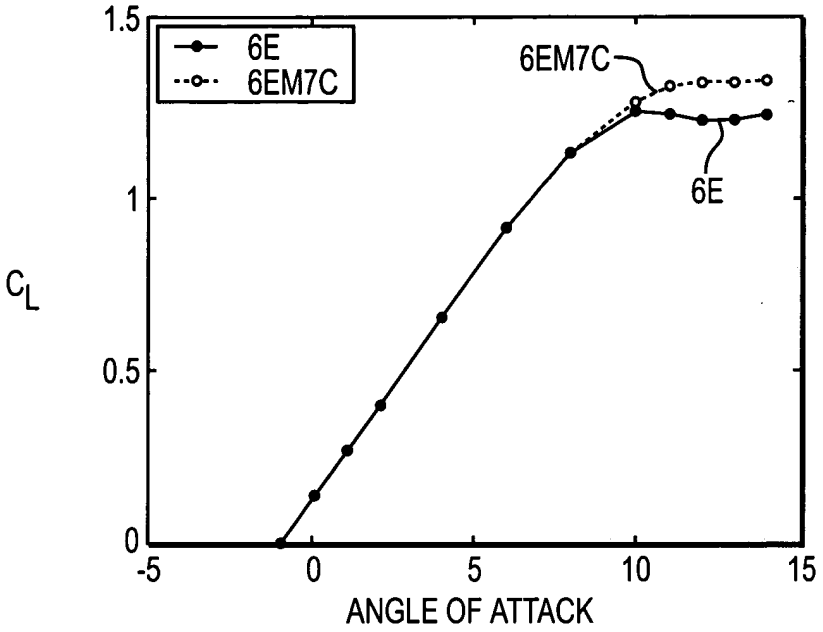

1.5
1
0.5
0
C_L
6E
6EM7C
6EM7C
6E
-5
0
5
10
15
ANGLE OF ATTACK

FIG. 12

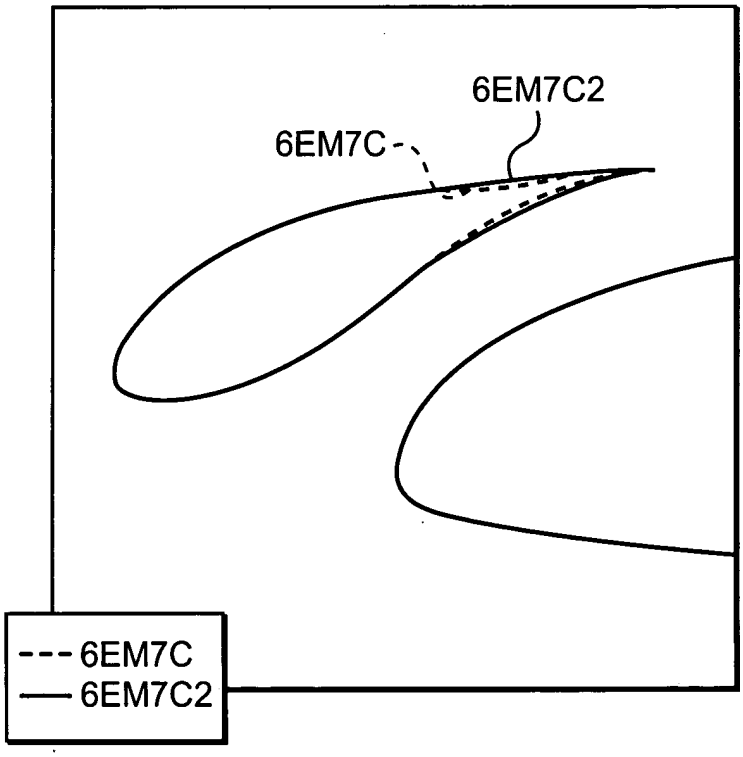

6EM7C2
6EM7C
--- 6EM7C
— 6EM7C2

FIG. 13

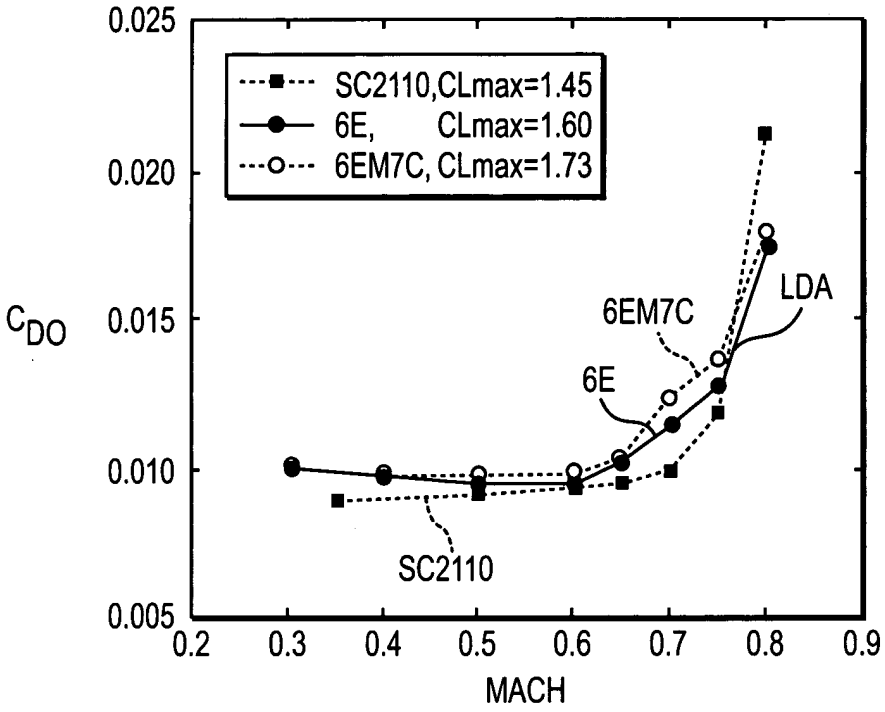


FIG. 14A

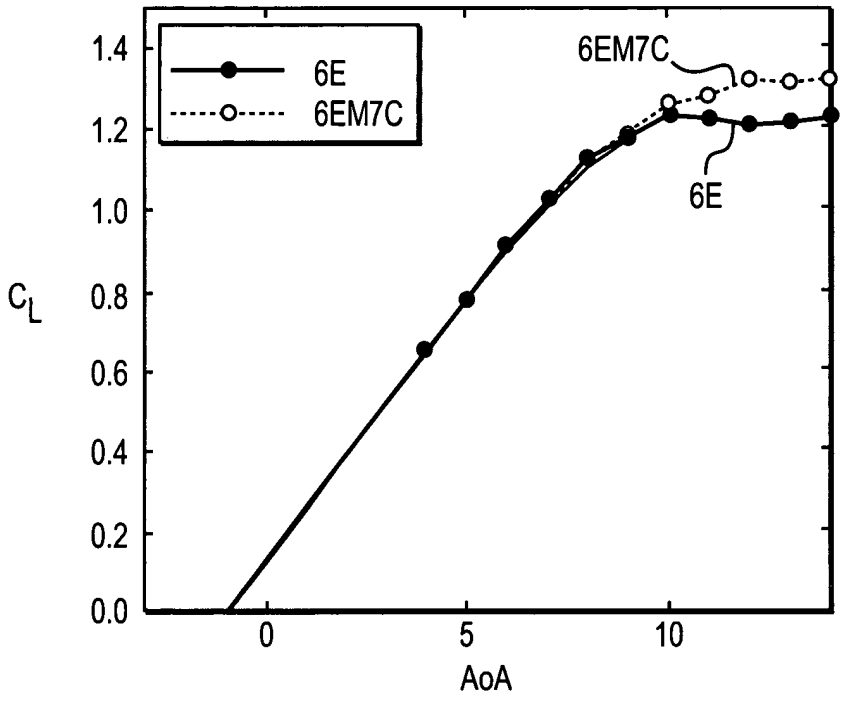


FIG. 14B

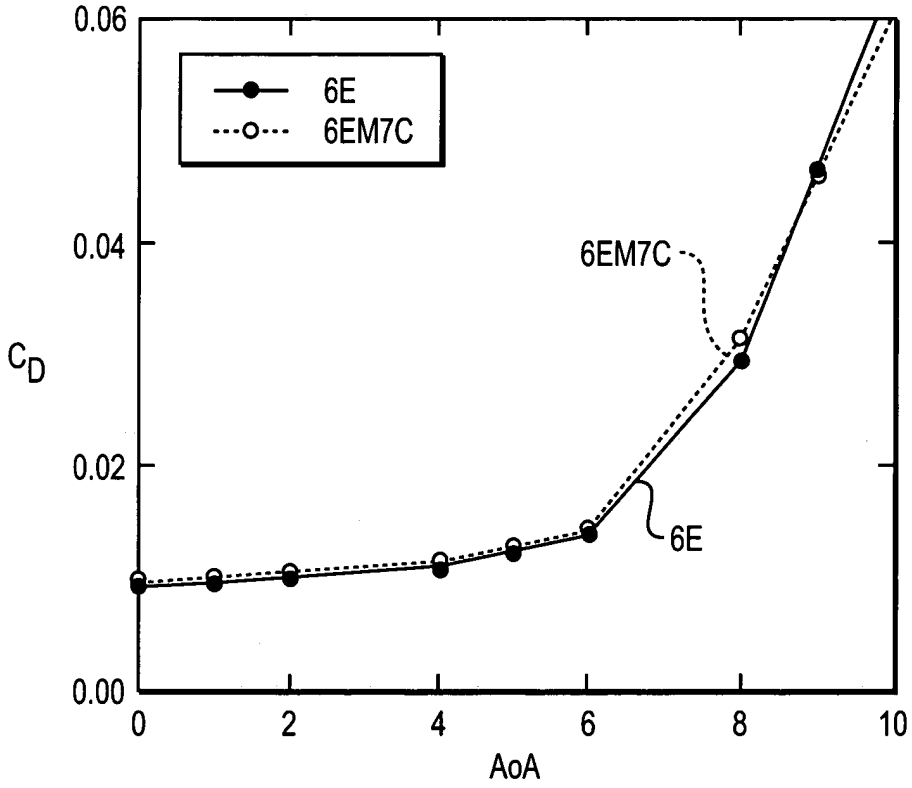
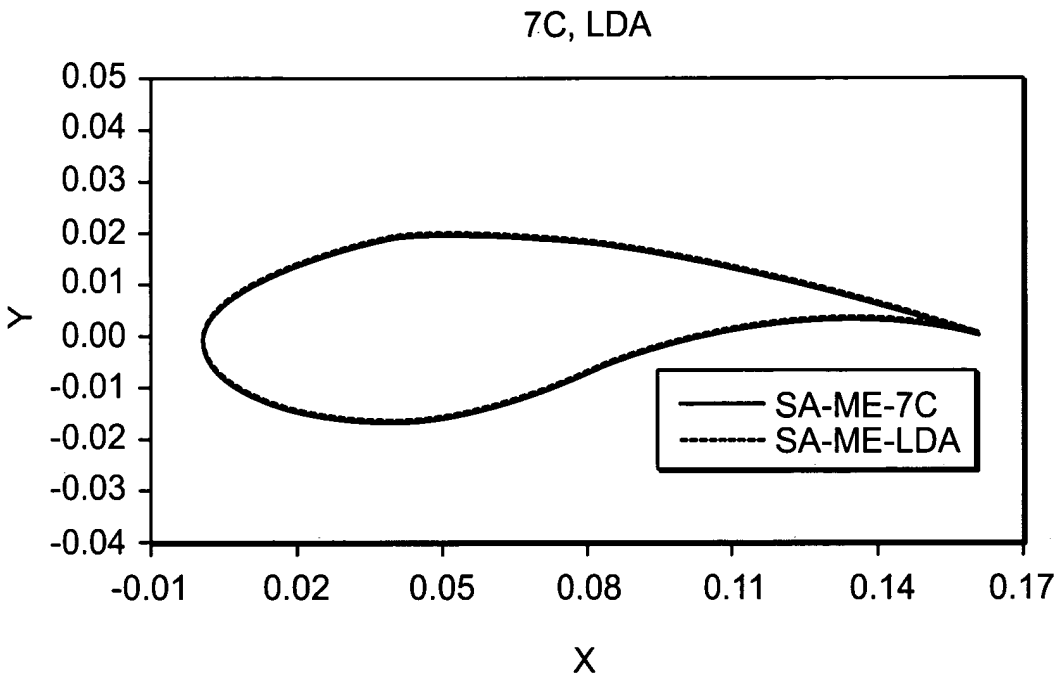
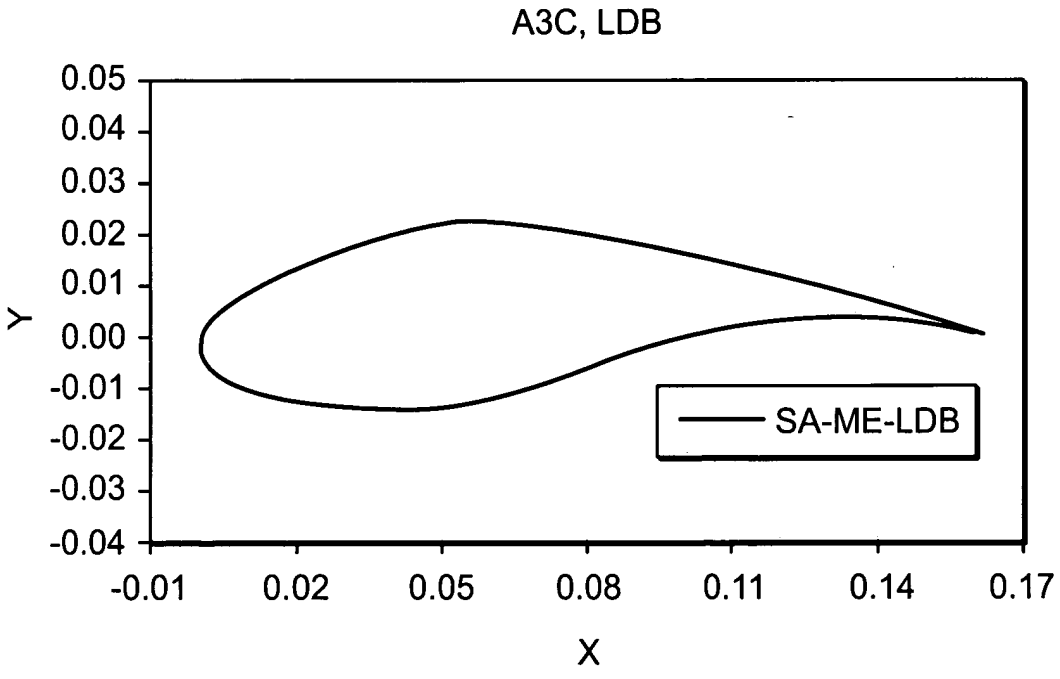


FIG. 14C



7C AND LDA COORDINATES.

FIG. 15A



LDA COORDINATES.

FIG. 16A

SLAT SA-MEA-7C

UPPER		LOWER	
0.00058	0.00000	0.00033	-0.00069
0.00091	0.00073	0.00015	-0.00129
0.00139	0.00155	0.00000	-0.00255
0.00204	0.00245	0.00004	-0.00320
0.00398	0.00441	0.00061	-0.00511
0.00688	0.00657	0.00197	-0.00675
0.01075	0.00894	0.00431	-0.00859
0.01307	0.01021	0.00562	-0.00939
0.01849	0.01282	0.00975	-0.01139
0.02159	0.01413	0.01189	-0.01229
0.02493	0.01538	0.01425	-0.01304
0.02847	0.01653	0.01670	-0.01366
0.03212	0.01753	0.01998	-0.01436
0.03581	0.01835	0.02202	-0.01469
0.03953	0.01899	0.02478	-0.01498
0.04328	0.01948	0.03133	-0.01540
0.04705	0.01984	0.03510	-0.01553
0.05085	0.02003	0.03893	-0.01556
0.05467	0.02015	0.04294	-0.01549
0.05851	0.02019	0.04695	-0.01532
0.06238	0.02012	0.05106	-0.01499
0.06628	0.02001	0.05527	-0.01446
0.06994	0.01973	0.05962	-0.01365
0.07363	0.01942	0.06424	-0.01250
0.08102	0.01843	0.06926	-0.01098
0.08468	0.01783	0.07497	-0.00899
0.08830	0.01718	0.08188	-0.00645
0.09537	0.01590	0.08931	-0.00393
0.10217	0.01468	0.09607	-0.00202
0.10864	0.01348	0.10224	-0.00060
0.11172	0.01286	0.10784	0.00044
0.11760	0.01157	0.11296	0.00122
0.12037	0.01091	0.11752	0.00178
0.12305	0.01024	0.12164	0.00217
0.12560	0.00958	0.12528	0.00244
0.12807	0.00893	0.12852	0.00261
0.13041	0.00830	0.13142	0.00272
0.13267	0.00769	0.13396	0.00276
0.13479	0.00711	0.13618	0.00275
0.13685	0.00654	0.13819	0.00269
0.14061	0.00549	0.14000	0.00261
0.14402	0.00452	0.14302	0.00240
0.14704	0.00366	0.14632	0.00185
0.14982	0.00287	0.14876	0.00145
0.15406	0.00160	0.15392	0.00084
0.15695	0.00069	0.15652	0.00041
0.15908	0.00001	0.15905	-0.00008

FIG. 15B

SLAT SA-MEA-LDA

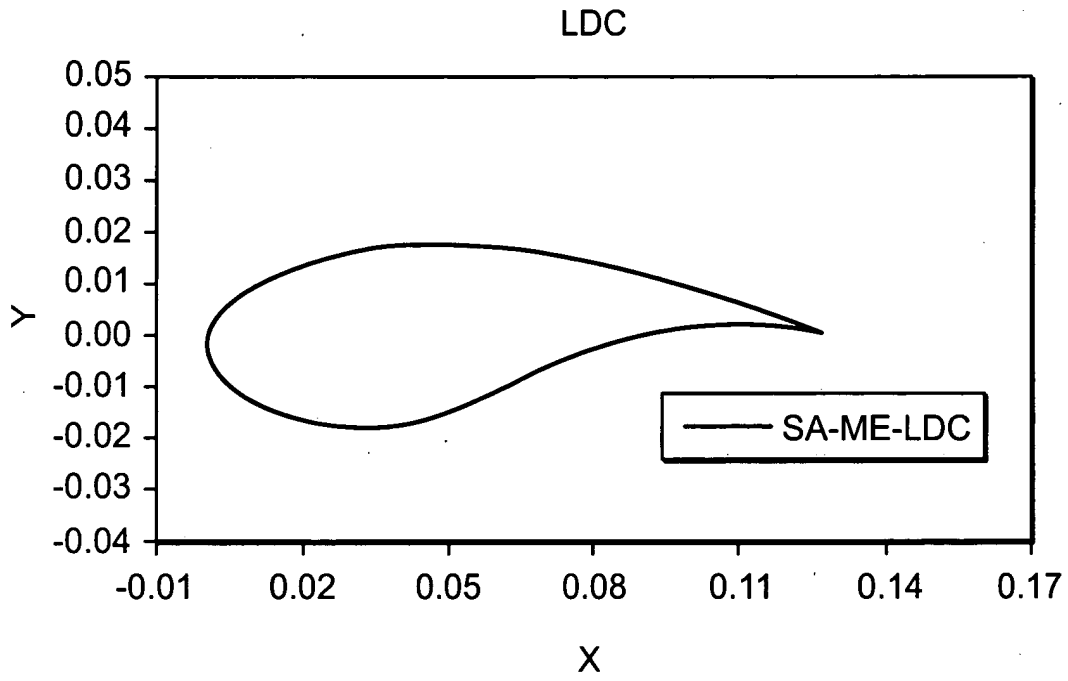
UPPER		LOWER	
0.00052	0.00000	0.00052	0.00000
0.00086	0.00075	0.00010	-0.00134
0.00135	0.00158	0.00000	-0.00198
0.00203	0.00247	0.00008	-0.00331
0.00293	0.00340	0.00024	-0.00399
0.00406	0.00438	0.00092	-0.00527
0.00702	0.00644	0.00201	-0.00637
0.00886	0.00756	0.00323	-0.00738
0.01092	0.00873	0.00452	-0.00833
0.01324	0.00996	0.00589	-0.00920
0.01580	0.01123	0.00792	-0.01032
0.01862	0.01250	0.01006	-0.01142
0.02169	0.01376	0.01218	-0.01240
0.02499	0.01496	0.01477	-0.01333
0.02850	0.01606	0.01815	-0.01429
0.03211	0.01702	0.02129	-0.01504
0.03577	0.01780	0.02325	-0.01539
0.03946	0.01839	0.02587	-0.01570
0.04318	0.01885	0.02888	-0.01594
0.04693	0.01918	0.03218	-0.01618
0.05071	0.01936	0.03582	-0.01636
0.05451	0.01946	0.03951	-0.01643
0.05834	0.01949	0.04337	-0.01638
0.06219	0.01939	0.04723	-0.01620
0.06607	0.01925	0.05121	-0.01585
0.06972	0.01898	0.05529	-0.01528
0.07340	0.01865	0.05953	-0.01444
0.07709	0.01820	0.06404	-0.01327
0.08076	0.01768	0.06896	-0.01173
0.08441	0.01709	0.07455	-0.00972
0.08802	0.01648	0.08133	-0.00717
0.09506	0.01526	0.08866	-0.00461
0.10183	0.01410	0.09536	-0.00264
0.10827	0.01296	0.10151	-0.00116
0.11134	0.01236	0.10710	-0.00006
0.11719	0.01113	0.11223	0.00078
0.11995	0.01050	0.11678	0.00138
0.12262	0.00985	0.12091	0.00181
0.12761	0.00859	0.12456	0.00211
0.12994	0.00799	0.12780	0.00232
0.13219	0.00740	0.13071	0.00245
0.13635	0.00629	0.13549	0.00253
0.14349	0.00435	0.14236	0.00225
0.14926	0.00276	0.14897	0.00160
0.15349	0.00154	0.15339	0.00096
0.15637	0.00067	0.15598	0.00050
0.15850	0.00000	0.15850	0.00000

FIG. 15C

SLAT SA-MEA-LDB

UPPER		LOWER	
0.00025	0.00000	0.00025	0.00000
0.00092	0.00151	0.00007	-0.00067
0.00148	0.00235	0.00000	-0.00186
0.00228	0.00320	0.00011	-0.00243
0.00330	0.00408	0.00063	-0.00356
0.00456	0.00499	0.00104	-0.00410
0.00772	0.00696	0.00276	-0.00545
0.00961	0.00806	0.00397	-0.00628
0.01172	0.00924	0.00521	-0.00706
0.01405	0.01050	0.00711	-0.00808
0.01662	0.01182	0.00891	-0.00896
0.02246	0.01453	0.01277	-0.01067
0.02573	0.01587	0.01482	-0.01134
0.02918	0.01713	0.01819	-0.01225
0.03273	0.01830	0.02120	-0.01296
0.03632	0.01930	0.02311	-0.01332
0.03994	0.02018	0.02549	-0.01368
0.04359	0.02096	0.02810	-0.01403
0.04728	0.02159	0.03122	-0.01442
0.05101	0.02201	0.03465	-0.01473
0.05479	0.02232	0.03848	-0.01494
0.05863	0.02236	0.04264	-0.01497
0.06250	0.02225	0.04715	-0.01475
0.06642	0.02200	0.05202	-0.01421
0.07010	0.02160	0.05732	-0.01329
0.07754	0.02061	0.06317	-0.01191
0.08125	0.02004	0.06980	-0.00998
0.08493	0.01942	0.07765	-0.00736
0.09218	0.01810	0.08579	-0.00461
0.09571	0.01741	0.09316	-0.00236
0.10256	0.01597	0.09986	-0.00063
0.10586	0.01523	0.10592	0.00064
0.11218	0.01374	0.11142	0.00155
0.11810	0.01226	0.11629	0.00217
0.12361	0.01080	0.12067	0.00259
0.12868	0.00939	0.12793	0.00301
0.13332	0.00806	0.13363	0.00312
0.13753	0.00684	0.13805	0.00303
0.14131	0.00572	0.14161	0.00285
0.14474	0.00469	0.14441	0.00263
0.14774	0.00379	0.14662	0.00240
0.15048	0.00296	0.14994	0.00196
0.15467	0.00165	0.15495	0.00107
0.15691	0.00091	0.15787	0.00042
0.15804	0.00053	0.15824	0.00034
0.15892	0.00023	0.15895	0.00016
0.15960	0.00000	0.15960	0.00000

FIG. 16B



LDC COORDINATES.

FIG. 17A

COMPARISON OF SLAT THICKNESS,
CHORD LENGTH AND THICKNESS RATIO.

	t	c	t/c
7C	0.0339	0.159	0.213
LDA	0.0348	0.159	0.220
LDB	0.0359	0.160	0.225
LDC	0.0337	0.129	0.262

FIG. 18

SLAT SA-MEA-LDC

UPPER		LOWER	
0.00034	0.00000	0.00034	0.00000
0.00153	0.00221	0.00000	-0.00132
0.00427	0.00465	0.00014	-0.00275
0.00703	0.00641	0.00154	-0.00479
0.01047	0.00839	0.00276	0.00606
0.01463	0.01057	0.00400	-0.00729
0.01955	0.01277	0.00600	-0.00906
0.02229	0.01380	0.00924	-0.01169
0.02518	0.01473	0.01100	-0.01276
0.02816	0.01554	0.01327	-0.01392
0.03117	0.01621	0.01516	-0.01477
0.03422	0.01671	0.01769	-0.01563
0.03730	0.01708	0.02023	-0.01621
0.04040	0.01734	0.02295	-0.01669
0.04352	0.01748	0.02684	-0.01724
0.04666	0.01752	0.02920	-0.01741
0.04982	0.01750	0.03181	-0.01748
0.05299	0.01737	0.03462	-0.01743
0.05619	0.01718	0.03763	-0.01722
0.05920	0.01694	0.04077	-0.01682
0.06220	0.01665	0.04410	-0.01620
0.06517	0.01633	0.04760	-0.01532
0.06810	0.01594	0.05138	-0.01415
0.07100	0.01553	0.05547	-0.01268
0.07384	0.01507	0.05999	-0.01088
0.07935	0.01404	0.06512	-0.00875
0.08461	0.01290	0.07112	-0.00632
0.08957	0.01175	0.07733	-0.00406
0.09194	0.01117	0.08278	-0.00236
0.09645	0.01005	0.08761	-0.00113
0.10065	0.00895	0.09189	-0.00025
0.10453	0.00785	0.09566	0.00036
0.10807	0.00676	0.09898	0.00080
0.11130	0.00572	0.10191	0.00113
0.11424	0.00476	0.10447	0.00136
0.11688	0.00389	0.10674	0.00154
0.11924	0.00313	0.11053	0.00177
0.12033	0.00278	0.11346	0.00179
0.12138	0.00245	0.11585	0.00171
0.12237	0.00214	0.11771	0.00159
0.12327	0.00185	0.11917	0.00146
0.12408	0.00158	0.12034	0.00133
0.12484	0.00132	0.12225	0.00109
0.12554	0.00108	0.12386	0.00085
0.12618	0.00086	0.12537	0.00058
0.12676	0.00066	0.12684	0.00030
0.12777	0.00030	0.12825	-0.00001
0.12858	0.00000	0.12892	-0.00016

FIG. 17B